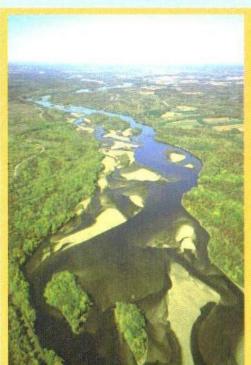
# Friends of the Lower Wisconsin Riverway (FLOW) FLOW as an environmental advocacy organization for the protection of the **Lower Wisconsin State Riverway**

## Lower Wisconsin State Riverway Wisconsin FLOW also a friends group for WDNR and Lower Wisconsin State Riverway **Board** Lower Wisconsin State \* Riverway

# Rare & Unusual Fishes of the LOWER WISCONSIN RIVER



RIVER HABITATS CHANGE RAPIDLY as flowing waters build and reduce sandbars. Sometimes sandbars survive to become forested islands. River flow becomes braided around the islands where fallen trees line the shore and become magnets for insects, birds, turtles and fish.



OME TO 98 SPECIES OF FISH, THE LOWER WISCONSIN RIVER is one of the most ecologically diverse large river systems in the United States. This section of the river flows from Prairie du Sac west

across the unglaciated Driftless Area to the Mississippi River.



THE DIVERSE ARRAY OF FISH AND OTHER ANIMALS in this protected 92-mile Lower Wisconsin State Riverway reflects the intricate connections of the free-flowing river with its floodplain lakes

SHIFTING SAND MAKES A HARSH ENVIRONMENT FOR MANY ANIMALS but important niches for others. The western sand darter dives into the sand to escape predators while the primitive armored mayfly burrows near the sandy shores. The river hosts many unusual and rare fish, such as the shoal chub, crystal darter, bullhead minnow, starhead topminnow, primitive lampreys, gars, paddlefish,



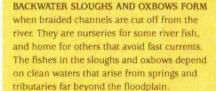






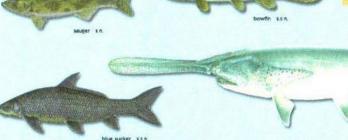
















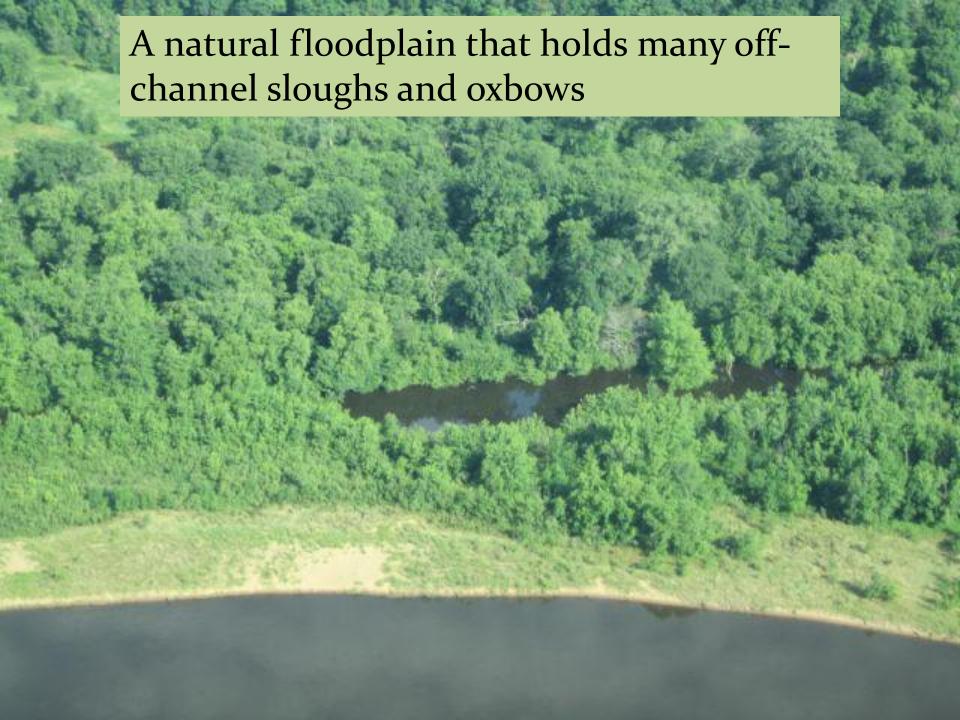












Lake District polluted water pumping

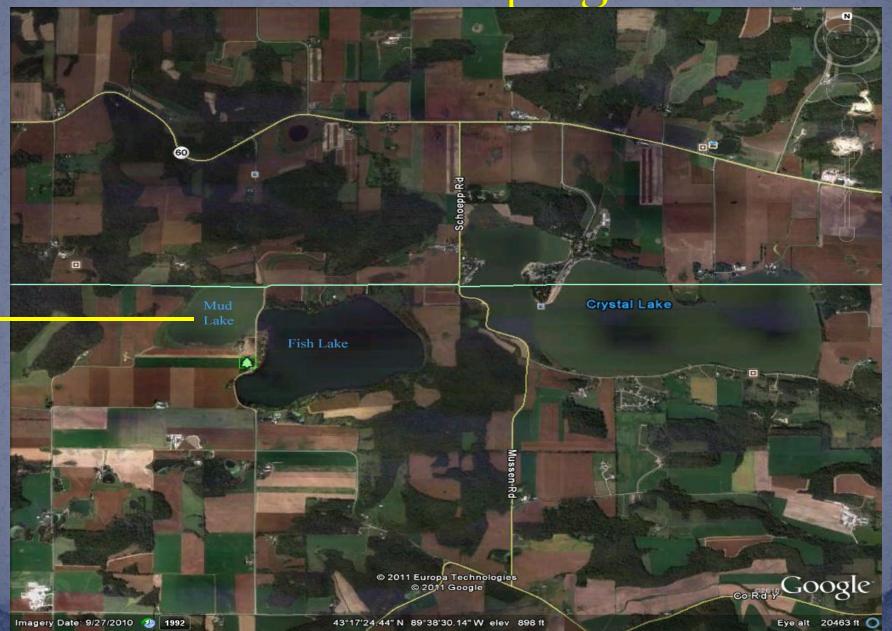
Contaminated groundwater near Spring Green and polluted oxbows

Contaminated groundwater at BAAP

New wastewater discharge to Pine River

Planning and outreach on AIS issues

### Lake District Pumping to River













Armed with our own water quality study that documented impacts

(water quality criteria violations, transfer of fish, nuisance algal growths, loss of rare mussel bed, impacts to aquatic insects and effluent limits violations)

and

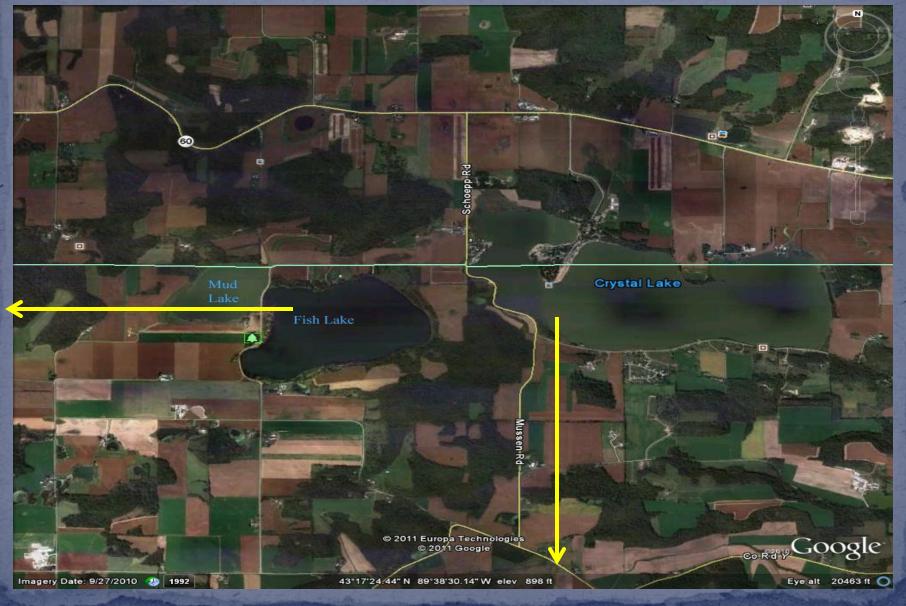
3 contested case hearings scheduled

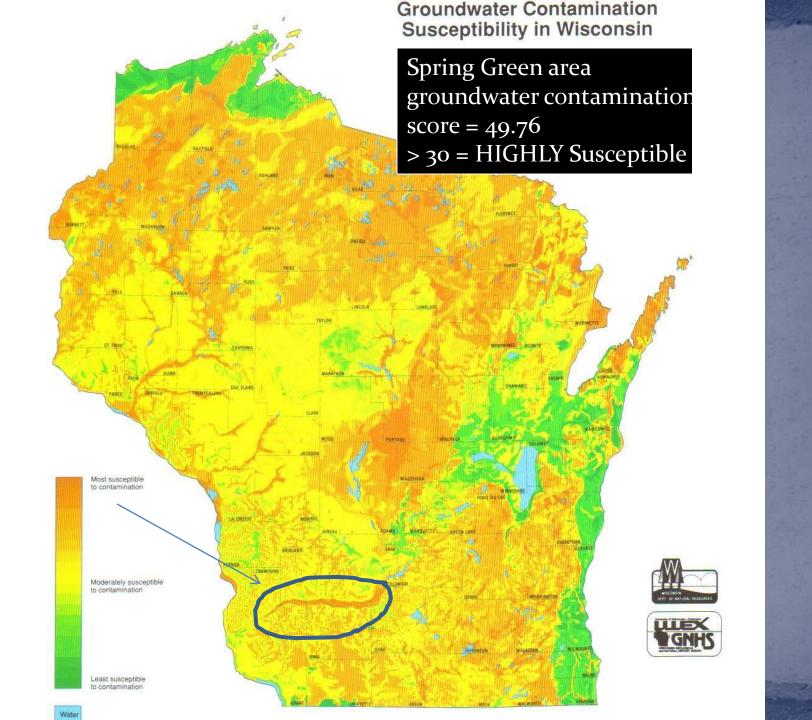
(we used administrative rules to our advantage)

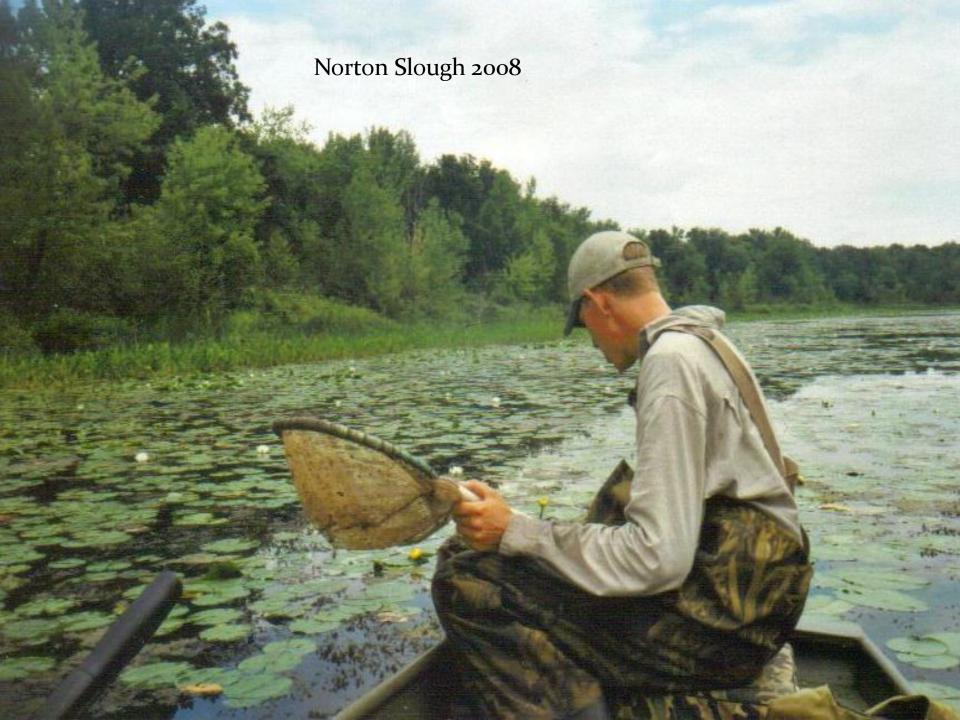
FLOW hired MEA to help negotiate a

settlement at \$0.00 cost to FLOW

## Lake District Pumping to River



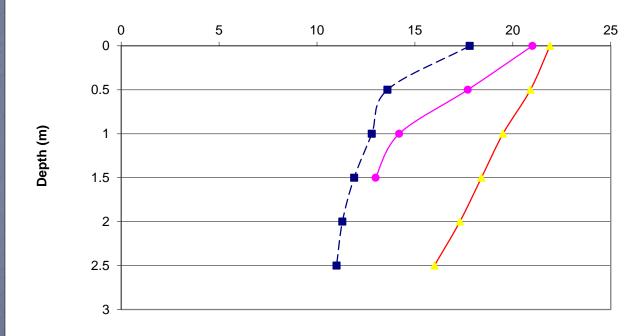


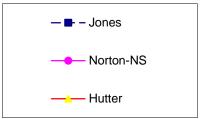


## Dynamic Floodplain Aquifer

#### **August Temperature Profiles**

#### **Degrees C**









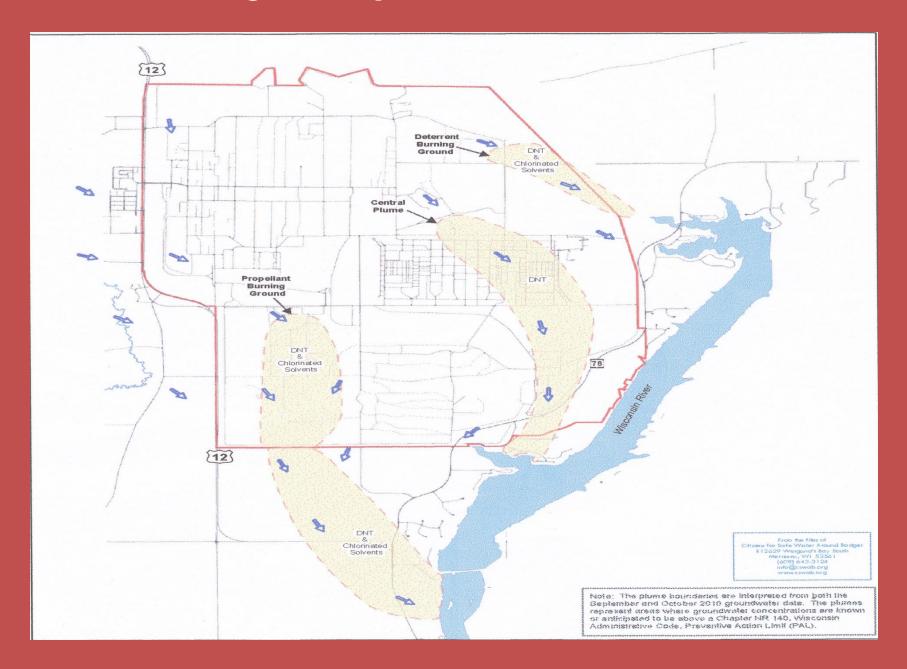
Pirate perch (Aphredoderus sayanus)

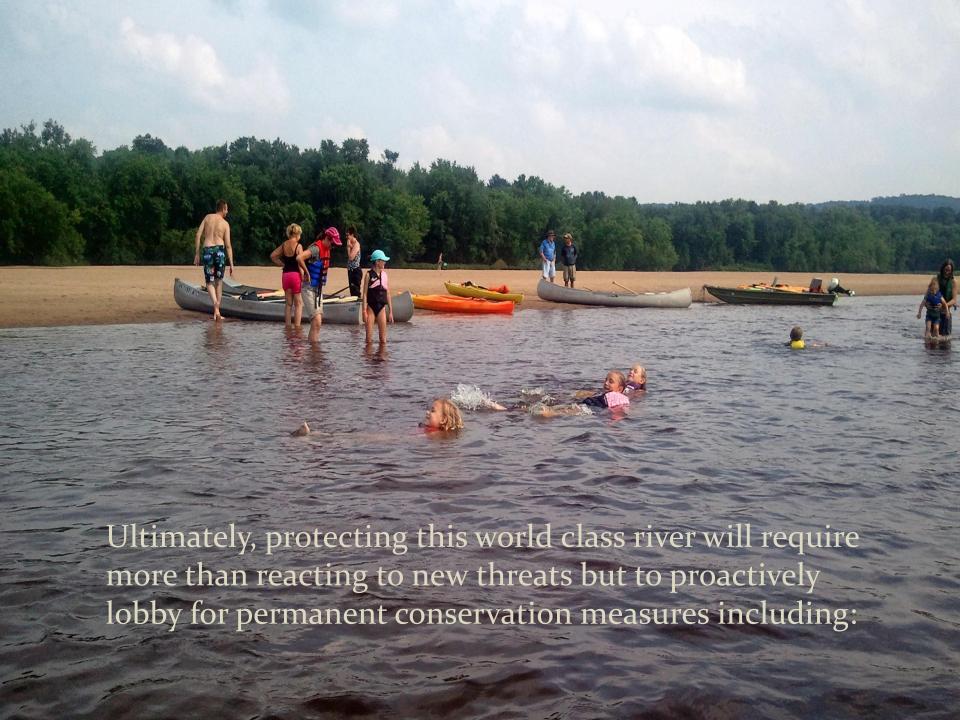


Starhead topminnow (Fundulus dispar)
Endangered



#### Badger Army Ammunitions Plant





#### PROACTIVE RIVER ADVOCACY

- Reclassify Lower Wisconsin River from ERW to ORW as originally intended in 1989
- Restore annual State Stewardship Funding
- Use State Stewardship Funding to establish conservation buffers around cut-off channel oxbows and other environmentally sensitive areas
- Implement AIS Strategic Plan with River Alliance and WDNR